

|   |  |   |
|---|--|---|
| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |  | ATTORNEY'S DOCKET NUMBER<br><br>050389-0053               |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b> |  | U.S. APPLIC. NO. (if known, see 37 CFR 1.5)<br>10/510,848 |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2004/000532  | INTERNATIONAL FILING DATE<br>January 22, 2004  | PRIORITY DATE CLAIMED<br>January 28, 2003                 |
| TITLE OF INVENTION<br>DIAMOND COMPOSITE SUBSTRATE AND A METHOD FOR MANUFACTURING SAME   |  |   |
| APPLICANTS FOR DO/EO/US<br>Kiichi MEGURO, Yoshiyuki YAMAMOTO, and Takahiro IMAI   |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:     |  |   |
| 1.<br><br>2.<br><br>3.<br><br>4.<br><br>5.<br><br>6.<br><br>7.<br><br>8.<br><br>9.<br><br>10.                                       | <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input checked="" style="margin-right: 10px;" type="checkbox"/> <div>             This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             The US has been elected (Article 31).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A copy of the International Application as filed (35 U.S.C. 371(c)(2))<br/>             a. <input style="margin-right: 10px;" type="checkbox"/> is attached herewith (required only if not transmitted by the International Bureau).<br/>             b. <input style="margin-right: 10px;" type="checkbox"/> has been communicated by the International Bureau.<br/>             c. <input style="margin-right: 10px;" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br/>             a. <input style="margin-right: 10px;" type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau).<br/>             b. <input style="margin-right: 10px;" type="checkbox"/> have been communicated by the International Bureau.<br/>             c. <input style="margin-right: 10px;" type="checkbox"/> have not been made; however, the time limit for making such amendment has NOT expired.<br/>             d. <input style="margin-right: 10px;" type="checkbox"/> have not been made and will not be made.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).           </div> </div> |   |
| Items 11. to 16. below concern other document(s) or information included:   |  |   |
| 11.<br><br>12.<br><br>13.<br><br>14.<br><br>15.<br><br>16.<br><br>17.<br><br>18.<br><br>19.<br><br>20.                              | <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An Information Disclosure Statement under 37 CFR 1.97 and 1.98.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A preliminary amendment.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             An Application Data Sheet under 37 CFR 1.76.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A substitute specification.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A power of attorney and/or change of address letter.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A second copy of the published International Application under 35 U.S.C. 154(d)(4).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input style="margin-right: 10px;" type="checkbox"/> <div>             A second copy of the English translation of the International Application under 35 U.S.C. 154(d)(4).           </div> </div> <div style="display: flex; align-items: flex-start;"> <input checked="" style="margin-right: 10px;" type="checkbox"/> <div>             Other items or information:<br/>             1) International Preliminary Examination Report           </div> </div>   |   |

|  |              |   |                     |   |                     |
|--|--------------|---|---------------------|---|---------------------|
| U.S. APPLIC. NO. (if known, see 37 CFR 1.50)<br>10/510,848   |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP2004/000532                            |                     | ATTORNEY'S DOCKET NUMBER<br>050389-0053 |                     |
|  |              |   |                     | <b>CALCULATIONS</b>                     | <b>PTO USE ONLY</b> |
| 21. <input type="checkbox"/> The following fees are submitted:   |              |   |                     |   |                     |
| <input type="checkbox"/> Basic National Stage Fee  |              | \$300   |                     | \$0                                     |                     |
| 22. <input type="checkbox"/> Examination Fee   |              |   |                     |   |                     |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)   |              |   |                     | \$100                                   | \$0                 |
| All other situations   |              |   |                     | \$200                                   |                     |
| 23. <input type="checkbox"/> Search Fee  |              |   |                     |   |                     |
| Search fee (37 CFR 1.445(1)(2)) has been paid on the international application to the USPTO as an International Searching Authority  |              |   |                     | \$100                                   | \$0                 |
| International Search Report prepared and provided to the Office  |              |   |                     | \$400                                   |                     |
| All other situations   |              |   |                     | \$500                                   |                     |
| <b>TOTAL OF 21, 22 and 23 =</b>  |              |   |                     | \$0                                     |                     |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |                     | \$0                                     |                     |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction Thereof (round up to a whole number) | RATE                |   |                     |
| -100   | /50=         |   | X\$250              | \$0                                     |                     |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).   |              |   |                     | \$0                                     |                     |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE                |   |                     |
| Total Claims   | -20 =        |   | x \$50.00           | \$0                                     |                     |
| Independent Claims   | -3 =         |   | x \$200.00          | \$0                                     |                     |
| Multiple dependent claim(s) (if applicable)  |              |   | + \$360.00          | \$0                                     |                     |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |                     | \$0                                     |                     |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |                     | \$0                                     |                     |
| <b>SUBTOTAL =</b>  |              |   |                     | \$0                                     |                     |
| Processing fee of \$130.00 for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |   |                     | +                                       | \$0                 |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |                     | \$0                                     |                     |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |                     | +                                       | \$0                 |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |                     | \$0                                     |                     |
|  |              |   |                     | Amount to be refunded                   | \$0                 |
|  |              |   |                     | Amount to be charged                    | \$0                 |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>500417</u> in the amount of \$0 to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>500417</u>. A duplicate copy of this sheet is enclosed.</p> |              |   |                     |   |                     |
| <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Customer Number 20277</p> <p>Telephone: 202.756.8000</p> <p>Facsimile: 202.756.8087</p>  |              |   |                     |   |                     |
|  |              |   | SIGNATURE           | September 9, 2005                       |                     |
|  |              |   | Arthur J. Steiner   |   |                     |
|  |              |   | NAME                |   |                     |
|  |              |   | 26,106              |   |                     |
|  |              |   | REGISTRATION NUMBER |   |                     |

BASED ON FORM PTO-1390 (Rev. 2-2005)